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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/036,995	10/22/2001	Lewis B. Aronson	9775-074-999	5310
7.	590 04/05/2006		EXAM	INER
ERIC L MASCHOFF WORKMAN, NYDEGGER & SEELEY 1000 Eagle Gate Tower 60 East South Temple			BUI, HUNG S	
			ART UNIT	PAPER NUMBER
			2841	
Salt Lake City,	UT 84111		DATE MAILED: 04/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/036,995	ARONSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hung S. Bui	2841				
The MAILING DATE of this communication app		correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period versions for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) ☐ Responsive to communication(s) filed on 12 Ja     2a) ☐ This action is FINAL. 2b) ☐ This     3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro					
Disposition of Claims						
<ul> <li>4) ☐ Claim(s) 1-86 is/are pending in the application.</li> <li>4a) Of the above claim(s) 58-86 is/are withdraw</li> <li>5) ☐ Claim(s) 26-57 is/are allowed.</li> <li>6) ☐ Claim(s) 1-8 and 14-20 is/are rejected.</li> <li>7) ☐ Claim(s) 9-13 and 21-25 is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/o</li> </ul>	n from consideration.					
Application Papers						
9) The specification is objected to by the Examine	r					
10)⊠ The drawing(s) filed on <u>22 March 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	· · ·					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		•				
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 01/16/2006.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-8 and 14-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Cantrell [US 5,642,264].

Regarding claims 1 and 14, Cantrell discloses a host board system (figures 2 and 6), comprising:

- a host board (203) at least partially positioned within a housing (figure 2) having a set of openings (openings define by a plurality of walls 201, 210, and support frame 211, figure 2), the host board including a set of connectors (205, figure 2);
- each opening in the set of openings being aligned with at least two connectors from the set of connectors (figure 2);
- the each opening configured to accept two modules (601, figure 6) of a first form factor so that each module of the first form factor is aligned and electrically coupled to one of the at least two connectors; and
- the each opening further configured to accept a single module (607, figure 6) of a second form factor so that the single module of the second form factor is aligned and electrically coupled to a first connector of the at least two connectors (figure 6).

Regarding claims 2 and 15, Cantrell discloses the single module of the second form factor preventing electrical coupling with a second connector of the at least two connectors by another module (figure 6).

Regarding claim 3, Cantrell discloses the single module of the second form factor being mechanically coupled to the second connector Of the at least two connectors (figure 6).

Regarding claims 4 and 16, Cantrell discloses a set of inserts (figures 2 and 6), each insert from the set of inserts configured to plug at least a portion of an opening from the set of openings.

Regarding claims 5 and 17, Cantrell discloses a first insert (a first guide rail 255 in a first row) from the set of inserts configured to plug only; the portion of the opening is further configured to accommodate one module of the first form factor (figure 6).

Regarding claims 6 and 18, Cantrell discloses a second insert (a second guide rail 307) from the set of inserts configured to plug only; the portion of the opening is further configured to accommodate two modules of the first form factor (figure 6).

Regarding claims 7 and 19, Cantrell discloses a third insert (301, 303, two guide rails from both side of the opening) from the set of inserts configured to plug only the portion of the opening is further configured to accommodate one module of the second form factor (figure 6, column 5, lines 12-13).

Regarding claims 8 and 20, Cantrell discloses a fourth insert (285, 257, figure 6) from the set of inserts configured to completely plug the opening and prevent insertion of any modules.

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### Allowable Subject Matter

3. Claims 26-57 are allowed.

4. Claims 9-13 and 21-25 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

5. The following is an examiner's statement of reasons for allowance: The cited

references in combination with the prior art of record fail to teach or suggest; a board

having a set of connectors being mounted thereon; a set of slots defined on the board

being located along an edge of the board; wherein the set of connectors are positioned

with respect to the set of slots and wherein the set of slots spaced such that each slot

from the set of slots can accommodate a module with the different form factors/sizes.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

## Response to Arguments

6. Applicant's arguments with respect to claims 1-57 have been considered but are

moot in view of the new ground(s) of rejection.

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#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung S. Bui whose telephone number is (571) 272-

2102. The examiner can normally be reached on Monday-Friday 8:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

03/31/2006 *Hung Bui* 

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